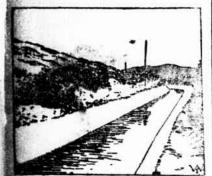
# Garden

#### DITCH LININGS.

at Some of Their Phases In Southern California. ependable water supply that car rawn upon whenever needed b of the ideal condition of agricul

and almost a necessity to the farmers. This consideration exthe undoubted interest in irri witten schemes and their progress to ome extent, at least, in humid region, due of the irrigator's problems every here is the waste water which sin' uto the soil from ditches and reser roirs. The loss sometimes amounts to than hal? the total flow. The ter which escapes is often word



[Lined with cement mortar.]

wasted. It collects in the lower fands, fills the soil, drowns the roots of trees and plants, brings alkali to the surface in some regions and is very erally a prolific breeding place for osquitoes.

On large storage works linings of ent concrete or asphaltum may be loyed without the expense being hibitive. But on lateral ditches and small storage basins simpler and aper methods of making the sure impervious to water, such as can carried out by farmers or unskilled aborers, must be found. Muddy wa-ter soon silts up muddy ditches, but re water is clear, as from wells or servoirs, seepage losses are likely to permanent, and some sort of lining stop this becomes an important mat-

Southern California affords one of se great fields for studying irriga-B. A. Etcheverry of the State iniversity, tracing the progress there, mys that canals were first paved with river bowlders or cobblestones. This paving was then improved upon by paving and cementing. Plastering with nent mortar from one-half to one hich thick and the use of concrete for inings from three to six inches thick were introduced afterward. The use steel or cement pipes has become much in favor in southern California Where the volume of water to distribite is not large they have to a great

gtent replaced the smaller open ditch. The advantage of lining a canal is not alone the decrease in seepage. Other factors should be considered. First, the prevention of growth of vegetation is an important item and is quite an expense when in most cases the ditch or lateral must be cleaned out several times during an irrigation season; secand, the resistance to scouring, on which depends the velocity which the water can be given, and, third, the ntion of squirrels and gophers oftenus of ditches.

The coment mortar lining is reported Professor Etcheverry to be probaused mere extensively in southern alifornia than all the other meth-



UNLINED CANAL

[Showing vegetation.] combined. It has proved very efficient, and its cost is small. Jurupa canal, in the vicinity of Riverside, as shown in the cut, is lined in his manner, the lining, however, being only one-quarter to one-half inch thick. Thin plaster lining is subject to rup-

ture from burrowing animals and from storm water washing out some of the back filling. It is propable that this kind of lining would not resist the climate of a country subject to very sold weather.

Heavy road oil has been experiment ed with and found very effective in preventing growth of aquatic plants Puddling with clay is said to be a good preventive of seepage, but it does not hinder vegetation.

Soil Sterllization.

The results of tests at the Vermont ment station show that soil ster issation is an effective means of preg or controlling some of the mies of greenhouse plants. or Stuart considers it "one of of important of the more recent ents of greenhouse technic" lary so frequently caused by s to tomatoes and cucumbers was under glass the steriliza combouse soil has become alwhen the soil is thus

#### THE TOP ROUND of THE LADDER.

Camilla Deming was a country gir who went to the city to join in the life erary scramble. Ambitious and possessing some means, she intended to eschew the drudgery of editorial work and strike at once into authorship. Hut one man in her native village was sufficiently intellectual to secure ber friendship, Curtis Forster, a young physician who had studied his profession in town and returned to practice it in the country. He was plodding and practical. He strongly advised her to choose a role offering greater chances of success, that of wife and mother. with himself for the busband, and when she refused begged her if she were unsuccessful to consider the offer still open.

She had met with some success by writing stories for the country papers and began in her new field with others more finished, it is true, but the same simple work that had so pleased her neighbors. Occasionally she would dispose of one of them to a magazine, but at the end of a year after figuring up her net proceeds she had gained but a twentieth of her expenditures.

She had brought with her from the country a lift of collection work, which had remained in the bottom or her trunk. Feeling that sire should make an effort to add something to her to come for the next year even if it were not by her chosen creative work si took out this nonuseript, smoothed the rumpled pages and looked it over. consisted of a series of selections from the most affecting scenes in the works of Washington Irving, to each of which she had written a brief introduction admirably imitating the author's style

It was accepted, and the book made a hit. The author's income for the year from this source was equal to her expenditures. Her publisher suggested the writing of another similar book made up of extracts from the humor of a noted author.

The publisher's suggestion was ac companied by so handsome an offer that she accepted. The second book was more popular than the first and the proceeds derived many three lar-Then commenced a scramble ger. among publishers for the works of Camilla Deming. Success is gratify ing in any form, and the young author was very much delighted with hers She did not now consider her work simply editorial. At any rate, she saw in it an opening for her own creations,

She had long had on hand a novel which from time to time she had submitted to publishers, then revised and submitted again, always with the same result—"Unavailable." Selecting one Selecting one of a dozen publishers who were now hounding her for her work, she placed it in his hands, and it was published tmmediately.

Boll Weevil Problems. All students of the problem of boll weevil control have agreed that in the prevention of successful hibernation ies the most effectual means of reducing the numbers of the weevil and preventing injury the next season. Two methods are advocated-first, the destruction of the stalks in the fall as early as possible, and, second, rotation of the cotton crop, planting on land not in cotton the previous year and as far from such land as is possible .- E. Dwight Sanderson.

Dodder Not Poisonous to Stock. Dodder is not poisonous to stock. Hay carrying dense bunches of it is usually pushed aside by stock, says as authority on this subject.

It used to be imagined that the aver age level of Asia was muc than that of any other continent. matter of fact, Africa's average level is exactly that of Asia, each being 1,000 feet. The average elevation of North America is 1,350 feet and of South America, 1,200 feet.



Your Druggist sells Dr. Miles Anti-Path Pills and he is authorized to roturn the price of the first

parkage (only) if it fells to benefit you

A Dramatic Assassination. By far the most dramatic royal as-

sasaination was that of the Emperor Paul of Russia on March 24, 1801, by als nobles. As usual Paul had retired to rest booted and spurred and in his regimentals. At the dead of night be was awakened by an unusual noise. The hussar who guarded his chamber door-the only faithful sentry, as it proved, in the palace-was being killed by nine nobles. They burst into the room and began to attack the emperor. Paul hid behind chairs and tables and begged for his life. He offered to make each of his assailants a prince. He of-fered to abdicate in vain. Then he made a wild dash for the window, fearfully gashing himself, but he was dragged back. He seized a chair and for some time kept the nine of them a bay, and only after terrific struggles was he seized and strangled with his own sash.

Very Likely.

Mr. Hogg-Here is some fool says in the paper that women have forgotten how to laugh. Mrs. Hogg-I guess he means married women.—Cincinnati En-

en credited with naming Washington "the City of Magnificent Distances." This is incorrect. Thackeray may have used the phrase, but it originated with

Washington's Nickname William Makepeace Thackeray bas

John A. Corwine of Bellefontaine, Logan county, O., who was a very famous personage in the forties and fif-Once on a visit to the national capital he wound up a period of ex-hilarating experiences in the visitors' gallery of the bouse of representatives, and as that august body came to order Mr. Corwine felt impelled to rise in his place and make a few remarks. He began, "I have been visiting this city of magnificent distances." There was a lot more, but this sentence lived. -New York World.

Point of Resemblance Stella-Does her auto mateu ber gown? Bella-Yes, they are neither of them paid for.—New York Sun.

Tiresome Sport. Patience-Which do you think the more tiresome, golf or skating?
Patrice-Oh, golf! A person sits down more while skating!-Yonkers

## Want Good WhiskeY?

Statesman.

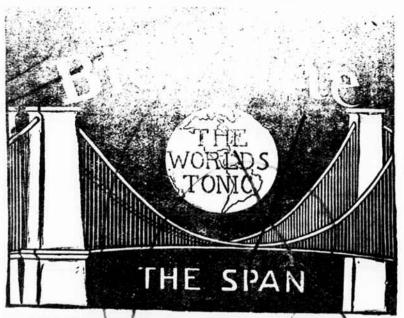
in the south. All pass through Richmond. Orders received on one mail go out on the next train. Shipments made from this point reach any place in South Carolina the next morning. All goods guaranteed under the Pure Food and Drug act.

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Old Capitol Rye	₿ 5.75	\$ 11.00.		\$ 15.00
Fern springs Rye	4.50	8.75		12.00
John Black's P. S.	4.00	7.50		10.00
I. E. Goff A A A A		6.1		9.50
Belle Haven Rye	3.00	, A5.		8.50
Red Deer Corn	3.00	5.3		8.50
Old Bonded Corn	4.50	\ / 8.	(1 <del>.7</del> 5).	12.00
Red Deer Gin	3.00	5.1	75	8.50
Hermitage Gin	3.80	/\ 7	40	10.09
IN BULK	1 gai	2 gml	3 gal	4 gal
A A Rye	\$ 2.50	\$ 4.75	\$ 6.85	\$ 9.10
, A A A Kye	3.50	6.80	9.20	12.20
Straight 8 vrs old Ry A A Corn		10.00	14.75	18.20
A A A Corn	2.50 3.50	4.75	6.55	9.10
A A Gin.	2.50	6.80 4.75	9.20	12.20
A A A Gin	3.50	6.80	6.85 9.20	9.10 12.20
INPOSTED and	RONDED	oode Brindies	Wince	. D.

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of life is uncertain—it may be long or it may be short—this largely depends upon your health, and when you find the spans weakening and you feel all run down, nervous, irritable, melancholy; loosing flesh; have no appetite; feel faint; cant sleep; have bad dreams; dizziness or swimming of the head; your hands and feet get cold, tingle and get numb; have pains in your side or back; brick-dust deposit in urine; have acid stomach or heartburn; feel stiff and sore across the shoulders; have shooting pains throughout the bedy; have to strain or a desire to throughout the body; have to strain or a desire to mrinate often, or a burning sensation when passing it, you should commence to take Bloodine to-day. Go or send to your druggist now for a bottle. Don't wait! Delays are dangerous!!

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Colonester, Conn., Marchyo. 2904.

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Gentlement Through a friend in Millord I am induced to try your Bloodine. I enclass for for sample bottle. Those you will give it prompt attention as I am needing it very truly.

Mrs. A. C. Taintor.

Colonester, Conn., April 11, 1904.

THE BLOODINE CO., Boston, Mass. 1

Colchester, Cohn., April 11, 1904.

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Gentlement I enclose 52,50 for six (6) bottles of Bloodine—am convinced it is what I need to build pas up. I saw a change for the better after taking
We will forfeit \$1,000 if the originals of the above letters proving genuineness cannot be produced.

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Price per acre

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Price per acre only \$10 00

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